		<u> </u>	_X/L/
	Application No.	Applicant(s)	- 110
Notice of Allowability	10/656,935	PARK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Luan Thai	2829	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to			
2. The allowed claim(s) is/are 1-19 (renumbered as 1-4, 6, 5,	7-9,11, 10, 12-15, 18, 19, 16 and 17	<u>, respectively)</u> .	
3. The drawings filed on <u>05 September 2003</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 			
2. Certified copies of the priority documents have been received in Application No. 09/556,499.			
 Copies of the certified copies of the priority doe International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	cuments have been received in this	national stage applicat	ion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or Notion is deficient.	OTICE OF
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review (PTO-		
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	ote the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal Page 1	• • • • • • • • • • • • • • • • • • • •)-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		 Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment 	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date 5/9/03			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allov	wance
of Biological Material	9.	·	
LUANTHAI PRIMARY EXAMINE	1/7/05		

Application/Control Number: 10/656,935 Page 2

Art Unit: 2829

DETAILED ACTION

1. Claims 1-19 are allowed and renumbered as 1-4, 6, 5, 7-9,11, 10, 12-15, 18, 19, 16 and 17, respectively.

2. The following is an examiner's statement of reasons for allowance:

The cited art taken either singly or in combination with other prior arts fails to anticipate or fairly suggest the limitations which the Applicant claims in independent claim 1 in a manner which would warrant a rejection under 35 U.S.C. § 102 or 35 U.S.C. § 103, especially when these limitations are considered within the specific combination claimed.

The cited art, U.S. Pat. No. 6,287,957 to Linliu, discloses a method for forming a self-aligned contact hole, which provides a large process window and ensures full utilization of bottom contact area even when the overlay is not well aligned. Linliu, however, fails to anticipate or fairly suggest, among others, at least the process step of widening the contact hole to expose the first electrically insulating layer by wet etching sidewalls of the contact hole using an etchant that etches the second material faster than the first material, as claimed in claims 1, 7, and 12.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/656,935

Art Unit: 2829

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Luan Thai whose telephone number is 571-272-1935. The

Page 3

examiner can normally be reached on 6:45 AM - 4:15 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nestor Ramirez can be reached on 571-272-2034. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Luan 7kai

Primary Examiner Art Unit 2829

January 10, 2005